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Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89

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OFFICE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

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EPA Form 7710-52

| | , | SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION | · , |
|------|------|--|---------------------------------|
| PART | Α (| GENERAL REPORTING INFORMATION | |
| 1.01 | Thi | s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been | |
| CBI | | pleted in response to the Federal Register Notice of $[1]2[2]2[2]$ | [<u>8</u>] <u>9</u>] year |
| [_] | a. | If a Chemical Abstracts Service Number (CAS No.) is provided in the Federa | al |
| | | Register, list the CAS No $[0]2]6]4]7]1]-[6]2$ | <u>[]</u> -[<u>5</u>] |
| | b. | If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , leither (i) the chemical name, (ii) the mixture name, or (iii) the trade nather chemical substance as provided in the <u>Federal Register</u> . | 12 |
| | | (i) Chemical name as listed in the rule NA | • |
| | | (ii) Name of mixture as listed in the rule | |
| | | (iii) Trade name as listed in the rule | |
| | c. | If a chemical category is provided in the <u>Federal Register</u> , report the name the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name substance you are reporting on which falls under the listed category. | ne of |
| | | Name of category as listed in the rule NA | |
| | | CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]_]_] |]-{-} |
| | | Name of chemical substance | |
| 1.02 | Ide | entify your reporting status under CAIR by circling the appropriate response | e(s). |
| CBI | | ufacturer | |
| [_] | | oorter | |
| | | ocessor | |
| | | manufacturer reporting for customer who is a processor | • |
| | | Processor reporting for customer who is a processor | |
| | | | |
| [_] | Mark | (X) this box if you attach a continuation sheet. | |

| 1.03 CBI | Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice? | | | | |
|---------------------|---|-----------------|--|--|--|
| [_] | Yes No | ••••• | $\left[\begin{array}{c} \overline{x} \end{array}\right]$ Go to question 1.04 $\left[\begin{array}{c} \overline{x} \end{array}\right]$ Go to question 1.05 | | |
| 1.04 <u>CBI</u> [_] | a. b. | Yes . | the appropriate box below: You have chosen to notify your customers of their reporting obligations Provide the trade name(s) | | |
| 1.05 | · · | (_) | You have chosen to report for your customers You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting. | | |
| 1.05 <u>CBI</u> | Trad Is t | de name | y a trade name product and are reporting because you were notified of your requirements by your trade name supplier, provide that trade name. Wingfil Part A ade name product a mixture? Circle the appropriate response. | | |
| 1.06 CBI [_] | "I h ente | ereby red or | certification statement below: certify that, to the best of my knowledge and belief, all information this form is complete and accurate." ANDALL HEITZ HANDALL HEITZ SIGNATURE TITLE MANAGER (414) 330 - 2424 TELEPHONE NO. | | |
| [_] | lark | (X) th | ris box if you attach a continuation sheet. | | |

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| 1.07 <u>CBI</u> [_] | Exemptions From Reporting — If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission. | | | | |
|---------------------------|--|--|--|--|--|
| | "I hereby certify that, to the information which I have not income to EPA within the past 3 years a period specified in the rule." | cluded in t | his CATE Reporting F | orm has been submitted | |
| | NA | | | | |
| | NAME | | SIGNATURE | DATE SIGNED | |
| | | () | | | |
| | TITLE | (<u> </u> | TELEPHONE NO. | DATE OF PREVIOUS SUBMISSION | |
| CBI [_] | CBI Certification If you have certify that the following state those confidentiality claims whimmed the company has taken measures and it will continue to take the been, reasonably ascertainable is using legitimate means (other that judicial or quasi-judicial proinformation is not publicly available would cause substantial harm to | ements trut ich you hav to protect ese measure by other pe han discove oceeding) w ilable else | the confidentiality is; the information is rsons (other than go by based on a showing thout my company's there; and disclosures. | of the information, s not, and has not vernment bodies) by g of special need in consent; the | |
| | | | | | |
| | NAME | | SIGNATURE | DATE SIGNED | |
| | TITLE | () | TELEPHONE NO. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | # 1 · · · · · · · · · · · · · · · · · · | |
| [_] | Mark (X) this box if you attach a | a continuat | ion sheet. | | |

7 1 3 1

| 1.09 | Facility Identification |
|------------|--|
| <u>CBI</u> | Name [B]R]AIDI_IRIAIGIAINI_IIIIIIIIIIIIIIIIIIIIIIIIIIIIII |
| (_) | Address $[3]9]1911ALLIZIZIZIZIZIZIZIZIZIZIZIZIZIZIZIZIZIZI$ |
| | [G]RIEIEIN]_IZIAIYI_I_I_I_I_I_I_I_I_I_I_I_I_I_I_I_I_I_ |
| | $[\overline{\nu}]\overline{I}$ $[\overline{5}]\overline{4}]\overline{3}]\overline{0}]\overline{4}$ $[\overline{8}]\overline{0}]\overline{I}$ |
| | Dun & Bradstreet Number |
| | EPA ID Number |
| | Employer ID Number |
| | Primary Standard Industrial Classification (SIC) Code |
| | Other SIC Code |
| | Other SIC Code |
| 1.10 | Company Headquarters Identification |
| CBI | Name $[B]r[a]d][R[a]g[a]n]$, $[I]n]c[.]$ |
| [_] | Address $[4]4]0]4]G][]S]t]u]a]r]t][]A]n]d]r]e]w][]B]1]v]d]$ |
| | [C]h]a]r]l]o]t]t]e]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]] |
| | $\left[\frac{\overline{N}}{S}\right]\frac{\overline{C}}{State}$ $\left[\frac{\overline{2}}{\overline{8}}\right]\frac{\overline{8}}{\overline{2}}\left[\frac{\overline{1}}{\overline{1}}\right]\frac{\overline{0}}{\overline{2}}\left[-\left[\frac{\overline{1}}{\overline{1}}\right]\right]$ |
| | Dun & Bradstreet Number |
| | Employer ID Number |
| | |
| | |
| | |

| 1.11 | Parent Company Identification |
|--------------------|--|
| <u>CBI</u> [] | Name $[T]h]e][G]o]o]o]d]y]e]a]r][T]i]r]e]&]R]u]b]b]e]r][G]o$ Address $[1]1]4]4][E]a]s]t][M]a]r]k]e]t][Street][C]o$ $[A]k]r]o]n][][]][][][][][][][][][][][][][][][]$ |
| 1.12 <u>CBI</u> | Technical Contact Name [J]o]h]n]]B].]]H]a]r]b]e]r]]]]]]]]]]]]]]]]]]] |
| · | Title [M]a]n]a]g]e]r],]]T]e]c]h]n]i]c]a]l]]]S]e]r]v]i]c]e] Address [1]9]0]5]]]P]i]r]s]t]]]S]t].]p]0]]B]0]x]3]4]0]8] [R]a]d]f]0]r]d]]]]]]]]]]]]]]]]]]]]]]]]]]]]]] |
| | |
| 1.13 | This reporting year is from $[\frac{\overline{O}}{Mo}, \frac{\overline{I}}{Year}] = [\frac{\overline{B}}{Mo}, \frac{\overline{B}}{Year}]$ to $[\frac{\overline{I}}{I}] = [\frac{\overline{B}}{Mo}, \frac{\overline{B}}{Year}]$ |
| | |
| <u> </u> | Mark (X) this box if you attach a continuation sheet. |

| 1.14 | Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller: |
|------|---|
| | NA |
| CBI | Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_] |
| 1-1 | |
| `' | Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | |
| | Employer ID Number |
| | Date of Sale |
| | Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | Telephone Number |
| | |
| 1.15 | NA Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer: |
| CBI | Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| [_] | Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | [_]_] [_]_]_]_]]]]]]_] |
| | Employer ID Number |
| | Date of Purchase |
| | Mo. Day Year |
| | Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_] |
| | Telephone Number |
| | |
| | |
| | |
| | |
| [_] | Mark (X) this box if you attach a continuation sheet. |

| <u>CBI</u> | 'For each classification listed below, state the quantity of the lis was manufactured, imported, or processed at your facility during the | e reporting year. |
|------------|---|-------------------------|
| [_] | Classification | Quantity (kg/yr) |
| | Manufactured | 0.0 |
| | Imported | 0 0 |
| | Processed (include quantity repackaged) | 17614 |
| | Of that quantity manufactured or imported, report that quantity: | 110,6 |
| | In storage at the beginning of the reporting year | A |
| | For on-site use or processing | |
| | For direct commercial distribution (including export) | - NA |
| | In storage at the end of the reporting year | |
| | Of that quantity processed, report that quantity: | |
| | In storage at the beginning of the reporting year | 14.72/200 |
| | Processed as a reactant (chemical producer) | ··· O.O |
| | Processed as a formulation component (mixture producer) | 0.0 |
| | Processed as an article component (article producer) | 17/01-4/2470 |
| | Repackaged (including export) | 17016 7 (240)C |
| | In storage at the end of the reporting year | 7.36 (1.Dem |
| | | ··· <u>1196 СТУКИ</u> Н |
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| Ī | Mixture If the listed s or a component of a mixtur chemical. (If the mixture each component chemical fo | ubstance on which you are re e, provide the following inf composition is variable, re r all formulations.) | quired to report is a mixtu ormation for each component port an average percentage |
|------------|---|---|--|
| <u>_</u>] | Component Name | Supplier Name | Average % Composition by Weigh (specify precision,e.g., 45% ± 0.5%) |
| | TDI Prepolymer | ARNCO | 40 ± 5.0 |
| | Petroleum Hydrocarbon | ARNCO | 55 ± 5.0 |
| - | Toluene Diisocyanate | ARNCO | 4.0 [±] 0.5 |
| - | | | |
| - | | | |
| - | · | | |
| | | | Total 100% |
| | | | |
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[_] Mark (X) this box if you attach a continuation sheet.

| 2.04 | State the quantity of the listed substance that your facility manufactured, imported or processed during the 3 corporate fiscal years preceding the reporting year in descending order. |
|-------------|---|
| CBI | |
| [_] | Year ending $[\frac{1}{1}]\frac{2}{8}$ $[\frac{8}{7}]\frac{7}{40}$ |
| | Quantity manufactured |
| | Quantity imported |
| | Quantity processed |
| | Year ending |
| | Quantity manufactured |
| | Quantity imported |
| | Quantity processed |
| | Year ending |
| | Quantity manufactured |
| | Quantity imported |
| | Quantity processed |
| 2.05 CBI | Specify the manner in which you manufactured the listed substance. Circle all appropriate process types. |
| [_] | NA |
| | Continuous process |
| | Semicontinuous process |
| | Batch process |
| | 3 |
| | |
| | |
| | |
| | |
| [_] | Mark (X) this box if you attach a continuation sheet. |
| | |

| 2.06 CBI | Specify the manner in a appropriate process type | which you processed to | the listed substance. | Circle all . |
|-------------|--|---|--|--|
| [_] | Continuous process | | | |
| | Semicontinuous process | | | |
| | Batch process | ************ | | |
| 2.07 | State your facility's r | namo plato occasio o | | |
| CBI | substance. (If you are question.) | a batch manufacture | er or batch processor, | do not answer this |
| [_] | Manufacturing capacity | NA | | |
| | Processing capacity | | | kg/yr |
| | Processing capacity | •••••••••• | | kg/yr |
| 2.08 CBI | If you intend to increamanufactured, imported, year, estimate the increase volume. | se or decrease the q or processed at any ease or decrease bas | uantity of the listed time after your curred to the upon the reporting | substance ent corporate fiscal year's production |
| | | | | |
| [_] | | Manufacturing Quantity (kg) | ImportingQuantity (kg) | Processing Quantity (kg) |
| [_] | Amount of increase | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| [_] | Amount of increase Amount of decrease | Manufacturing Quantity (kg) | Importing Quantity (kg) | |
| (_) | | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| [_] | | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| [_] | | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| [_] | | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| [_] | | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| [_] | Amount of decrease | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| [_] | Amount of decrease | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| | Amount of decrease | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| | Amount of decrease | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |
| | Amount of decrease | Manufacturing Quantity (kg) | Importing Quantity (kg) | Quantity (kg) |

| 2.09 | substance durin | argest volume manufacturing or processing proces e, specify the number of days you manufactured o g the reporting year. Also specify the average s type was operated. (If only one or two opera | or processed | the listed |
|-------------|--|--|-----------------------|----------------------|
| CBI | • | | | |
| [_] | | | Days/Year | Average Hours/Day |
| | Process Type #1 | (The process type involving the largest quantity of the listed substance.) | | |
| | , | Manufactured | | |
| | | Processed | 33 | 4 |
| | Process Type #2 | (The process type involving the 2nd largest quantity of the listed substance.) | | |
| | · | Manufactured | | |
| | | Processed | NA | |
| | Process Type #3 | (The process type involving the 3rd largest quantity of the listed substance.) | | |
| | | Manufactured | , | |
| | | Processed | NA | |
| 2.10 CBI | State the maximus ubstance that we chemical. Maximum daily in Average monthly | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | of the is the form of | ted a bulk kg kg |
| | | | | - |
| | Mark (X) this bo | ox if you attach a continuation sheet. | • | |

| rce of Byoducts, Cooducts, or |
|-------------------------------|
| purities |
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| 2.12 <u>CBI</u> | imported, or processed using the listed so the quantity of listed substance you use to total volume of listed substance used duri quantity of listed substance used captive listed under column b., and the types of | for each product type ing the regions the reporting year ly on-site as a percent product type in the region of the | eporting year. List as a percentage of the Also list the |
|--------------------|--|--|--|
| ·, | a. b. % of Quantity Manufactured, Imported, or Product Types Y 100 | and an example.) c. % of Quantity Used Captively On-Site 100 | d. Type of End-Users ² I, CM |
| | | | |
| | **Use the following codes to designate prod A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/ | L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and V = Rheological modi S X = Other (specify) | on/Plating chemicals dditives cals and additives c chemicals ol chemicals ls and additives additives |
| <u> </u> | CH C :) | er (specify) | |

| 2.13 <u>CBI</u> [_] | Expected Product Types Identify all product types which you expect to manufacture import, or process using the listed substance at any time after your current corporate fiscal year. For each use, specify the quantity you expect to manufacture import, or process for each use as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed substance used captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refer to the instructions for further explanation and an example.) | | | | | |
|---------------------|---|--|---|---|--|--|
| | a. | ь. | с. | d. | | |
| | Product Types 1 | % of Quantity Manufactured, Imported, or Processed | % of Quantity Used Captively On-Site | Type of End-Users ² | | |
| | | 100 | 100 | I, CM | | |
| | | | | | | |
| | • | | | | | |
| | | | | | | |
| | | | | | | |
| | <pre>"Use the following codes to designate prod A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/</pre> | | L = Moldable/Castabl M = Plasticizer N = Dye/Pigment/Colo O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify) | n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives | | |
| | ² Use the following cod I = Industrial | | | | | |
| | CM = Commercial | CS = Cons H = Othe | rumer r (specify) | | | |
| [_] | Mark (X) this box if y | ou attach a continua | tion sheet. | | | |

| J | | | | | | | |
|---------|------------------------------|-----------------------|---|------------------------|--|--|--|
| | a. | b. | C. | d. | | | |
| | | | Average % Composition of | | | | |
| | - 1 | Final Product's | Listed Substance | Type of | | | |
| | Product Type ¹ | Physical Form | in Final Product | End-Users ³ | | | |
| | X | Н | < 0.01 | I, CM | | | |
| | | | | | | | |
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| _ | | | | | | | |
| 1 U | se the following o | odes to designate pro | | | | | |
| A | = Solvent | oues to designate pro | | | | | |
| | = Synthetic react | ant | L = Moldable/Castable | e/Rubber and additi | | | |
| С | = Catalyst/Initia | itor/Accelerator/ | M = Plasticizer | | | | |
| | Sensitizer | | 0 - Photographia/Pannanna | | | | |
| Đ | = Inhibitor/Stabi | lizer/Scavenger/ | and additives | ographic chemical | | | |
| | Antioxidant | | | /Dloting short 3 | | | |
| E | = Analytical reag | ent | P = Electrodeposition Q = Fuel and fuel add | i/Plating chemicals | | | |
| F | <pre>= Chelator/Coagul</pre> | ant/Sequestrant | R = Explosive chemicals and additives | | | | |
| G | = Cleanser/Deterg | ent/Degreaser | S = 'Fragrance'Planes | chemicals | | | |
| Н | = Lubricant/Frict | ion modifier/Antiwear | T = Pollution control | chemicals | | | |
| - | agent | | U = Functional fluids | and additives | | | |
| Ţ | = Surfactant/Emul | sifier | V = Metal alloy and a | dditives | | | |
| J | = Flame retardant | | II - Dhaala-3-3-3-3-3-3-4-6 | · • | | | |
| K | = Coating/Binder/ | Adhesive and additive | s $X = 0$ ther (specify) _ | Article-Flat proof | | | |
| ² U. | se the following c | odes to designate the | final product's physic | al form: | | | |
| A | = 6as | | stalline solid | | | | |
| | = Liquid | F3 = Grad | | | | | |
| | = Aqueous solutio | n $F4 = Other$ | er solid | | | | |
| | = Paste | G = Gel | | | | | |
| | = Slurry l = Povder | H = Othe | er (specify) <u>Article</u> | | | | |
| 3 U: | se the following c | odes to designate the | type of and war | | | | |
| т | = Industrial | | | | | | |
| | 1 = Commercial | CS = Cons | | | | | |
| | - Jonnet Clai | n = Othe | er (specify) | | | | |
| | | | | | | | |
| | | | | | | | |

| CBI | liste | le all applicable modes of transportation used to deliver bulk shipments of ed substance to off-site customers. | f the |
|--------------------|--------|---|-----------------|
| [_] | Trucl | k | \overline{G} |
| | | car | |
| | | e, Vessel | \sim |
| | | line | |
| | | e | |
| | | r (specify) | |
| | | 5 | 6 |
| 2.16 <u>CBI</u> | of e | omer Use Estimate the quantity of the listed substance used by your cus repared by your customers during the reporting year for use under each cate nd use listed (i-iv). | tomers egory |
| | Cate | gory of End Use | |
| | i. | Industrial Products | |
| | | Chemical or mixture | kg/yr |
| | • | Article | kg/yr |
| | ii. | Commercial Products | _ |
| | | Chemical or mixture | kg/yr |
| | | Article | - kg/vr |
| | iii. | Consumer Products | _ 0, |
| | | Chemical or mixture | kg/yr |
| | | Article | |
| | iv. | Other | _ "6, }, |
| | | Distribution (excluding export) | ka/vr |
| | | Export | kg/yr |
| | | Quantity of substance consumed as reactant | _ |
| | | Unknown customer uses | _ K8/ y1 |
| | | | _ kg/yr |
| | | | |
| | Marali | (X) this box if you attach a continuation sheet. | *** |

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

| PART | A GENERAL DATA | | |
|-------------|--|---|---|
| 3.01 CBI | Specify the quantity purchased and the average price for each major source of supply listed. Product trade The average price is the market value of the product substance. | paid for the list es are treated as that was traded f | ed substance purchases. or the listed |
| | Source of Supply | Quantity (kg) | Average Price (\$/kg) |
| | The listed substance was manufactured on-site. | | |
| | The listed substance was transferred from a different company site. | · | |
| | The listed substance was purchased directly from a manufacturer or importer. | | · · · · · · · · · · · · · · · · · · · |
| | The listed substance was purchased from a distributor or repackager. | | |
| | The listed substance was purchased from a mixture producer. | 176.64 | 8.00 TOTAL MIXTURE |
| 3.02 | Circle all applicable modes of transportation used to your facility. | | |
| CBI | your facility. | deliver the list | ed substance to |
| J | Truck | | |
| | Railcar | *********** | |
| | Barge, Vessel | | 2 |
| | Pipeline | ************ | 3 |
| | Plane | * | 4 |
| | Other (specify) | • | 5 |
| | | | 6 |
| | | | |
| | | | |
| ··· | | | |
| | Mark (X) this box if you attach a continuation sheet. | | |
| | Site Site Co. | | |

| 3.03 CBI | a. | Circle all applicable containers used to transport the listed substance to you facility. | ır |
|-------------|----|---|----------|
| [_] | | Bags | |
| | | Bags | |
| | | Boxes | |
| | | Free standing tank cylinders | |
| | | Tank rail cars | |
| | | Hopper cars | |
| | | Tank trucks | |
| | | Hopper trucks | . 7 |
| | | Drums | 8). |
| | | Pipeline | . 9 |
| | | Other (specify) | |
| | b. | If the listed substance is transported in pressurized tank cylinders, tank rai cars, or tank trucks, state the pressure of the tanks. | |
| | | Tank cylinders | mHg |
| | | Tank rail cars | • |
| | | Tank trucks | ımHg |
| | | | ımHg |
| | | | |
| | | | |
| | | | |
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| If you obtain the list of the mixture, the na average percent compos amount of mixture proc | ition by | form of a mixture, list the) or manufacturer(s), an est he listed substance in the m orting year. | trade name(imate of th ixture, and |
|--|---------------------------------|--|---|
| Trade Name Wingfil Part A. | Supplier or Manufacturer ARNCO | Average % Composition by Veight (specify ± % precision) 4.0 + 0.5 | Amount Processe (kg/yr) 4416 |
| | | | |
| | | | |
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| 3.05 <u>CBI</u> [_] | State the quantity of the reporting year in the form the percent composition, t | listed substance used as a r n of a class I chemical, clas by weight, of the listed subs | raw material during the ss II chemical, or polymer, and stance. |
|---------------------------|---|--|--|
| | Class I chemical | Quantity Used (kg/yr) | % Composition by Veight of Listed Substance in Raw Material (specify \pm % precision $4.0 \stackrel{+}{-} 0.5$ |
| | | | |
| | Class II chemical | | - |
| | Polymer | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | SE | ECTION 4 | PHYSICAL/CHEMI | CAL PROPERTIES | |
|--------------------|--|------------------------|---|--|----------------------------------|
| Gener | al Instructions: | | | 76 54. | |
| If yo 4 tha | u are reporting on a m t are inappropriate to | ixture as mixtures | defined in the | e glossary, reply to que | estions in Section |
| notic | uestions 4.06-4.15, if e that addresses the in mile in lieu of answer: | ntormatio | n requested, yo | warning statement, labe ou may submit a copy or ch it addresses. | el, MSDS, or other reasonable |
| PART | A PHYSICAL/CHEMICAL DA | ATA SUMMA | RY | | ž |
| 4.01 <u>CBI</u> | substance as it is man substance in the final | nufacture 1 product | d, imported, or form for manual | or technical grade(s) or processed. Measure the facturing activities, a gin to process the subs | he purity of the |
| · 1 | | Man | ufacture | Import | Process |
| | Technical grade #1 | | % purity | % purity NA - | -mixture % purity |
| | Technical grade #2 | | % purity | % purity | % purity |
| | Technical grade #3 | | % purity | % purity | % purity |
| | | | | ee manufactured, import | |
| 4.02 | substance, and for even an MSDS that you deve | ery formu loped and | lation contain: an MSDS develo | afety Data Sheet (MSDS) ing the listed substanc oped by a different sou has been submitted by | e. If you possess |
| | Yes | | •••••• | | (1 |
| | No | | • | | 2 |
| | Indicate whether the | MSDS was | developed by ye | our company or by a dif | ferent source. |
| | | | | | |
| | Another source | | | | |

 $[\]$ Mark (X) this box if you attach a continuation sheet.



HATERIAL SAFETY DATA SHEET

REVISION DATE ___ June 4 ___, 1986

GENERAL INFORMATION

PRODUCT NAME : WING-FIL COMPONENT "A"

CHEHICAL NAME : TDI Prepolymer plus Petroleum Hydrocarbon CHEHICAL FAHILY

: Isocyanate Prepolymer and Petroleum Hydrocarbon FORHULA

: Proprietary DOT HAZARD CLASS : UN2078 (TDI)

HANUFACTURER' : ARNCO, 5141 Firestone Place, South Gate, CA 90280-3570

Phone No: (213)567-1378

CHEMTREC Phone No: (800)424-9300 District of Columbia: (202)483-7616

II. INGREDIENTS

| Components | TLV | Flash Point or | Boiling Point OF | Vapor Press. mm Hg | Vapor Dens. (Air=1) | Flammable Limit LEL HFI |
|--------------------------|-------------------------------|----------------------|------------------------|--------------------------|---------------------------|-------------------------------|
| TDI Prepolymer | 0.02ppm Not 0.2mg/m3 Estab | Not Estab. | Not Estab. | 0.02 @77°F. | 6.0 | Not Estab. |
| Petroleum Hydrocarbon | 0.2mg/m3 TWA-ACGIH | >300 | >550 | <1.0 @68°F. | <0.1 | No Data Available |

III. PHYSICAL DATA

BOILING POINT (OF) : 464 VAPOR PRESSURE (mm Hg) : SEE SECTION II VAPOR DENSITY (Air=1) : SEE SECTION II

SOLUBILITY IN WATER, \$: Insoluble. Reacts with water to liberate

CO₂ gas.

APPEARANCE & ODOR : Dark brown liquid. Sharp pungent odor. SPECIFIC GRAVITY (H20=1) : 1.01

* VOLATILE BY VOLUME : Negligible

EVAPORATION RATE (Ether=1) : Not Established

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F)

: 320

FLAHHABLE LIHITS

.: Not Established

EXTINGUISHING HEDIA

: Dry chemical, chemical foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full emergency equipment with self-contained pressure-demand breathing apparatus. Use water to cool fire-exposed containers. Eliminate all sources of ignition.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, toxic gases are genererated. Closed containers may explode from extreme heat or from water contamination. DO NOT reseal water-contaminated containers, as pressure buildup up may cause violent rupture of the container.

V. HEALTH HAZARD DATA

THRESHOLD LIHIT VALUE: 0.02 ppm; 0.2 mg/m3

SYMPTOMS OF EXPOSURE:

INHALATION: Hay cause dizziness and nausea. Irritation of the upper and lower respiratory tract. Some individuals may develop isocyante hypersensitization and must avoid further exposure to even low isocyanate levels. Inhalation of mists may present a canoer hazard. Sinusitis brochitis, asthma, and impaired ventilatory capacity oan occur. In some individuals.

INGESTION: Irritation and corrosive action in the mouth, stomach and digestive tract. Possibly liver toxicity. Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

EYES: Liquid, vapors, or mist can cause sever irritation, redness, tearing, blurred vision and possibly irreversible damage to the eye.

SKIN: Irritation and allergic sensitivity may occur for some individuals, producing reddening, swelling or blistering, and skin sensitization, possibly resulting in dermatitis. This product contains petroleum oils similar to those catogarized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

COMPES

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V. HEALTH HAZARD DATA (continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing unspecific bronchial hypersensitivity and, potentially, any allergies.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

EHERGENCY FIRST AID:

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, apply artificial respiration, and get medical attention immediately. NOTE TO PHYSICIAN: Treat symptomatically: bronchodilators; oxygen.

INGESTION: DO NOT INDUCE VOMITING. Aspiration can be fatal. Give a glass of milk or water, keep patient quiet and warm, and get prompt medical attention.

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid, and get prompt medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash affected skin with soap and water. Consult a physician if swelling or reddening occurs.

VI. REACTIVITY DATA

STABILITY: Stable under normal, recommended storage conditions.

CONDITIONS TO AVOID: Open flame and storage temperatures above 120°F

INCOMPATIBILITY: Haterials to avoid are water. alcohols, ammonia, amines, and alkalis. Contaminated containers should be left vented and be moved to a safe area for neutralization and proper disposal.

HAZARDOUS POLYMERIZATION: Hay occur.

CONDITIONS TO AVOID: Exposure to high temperature, or resealing of containers contaminated with materials listed under INCOMPATIBILITY (materials to avoid).

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, sulfur oxides, unidentified organic compounds, and traces of hydrogen cyanide (HCN).

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VII. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE: Evacuate and ventilate the area. Eliminate all sources of ignition. Respiratory protection must be worn during cleanup. Cover the spill with sawdust, vermiculite, or other absorbent material. Scoop and place in open container and remove to well ventilated area to be treated with a decontamination solution made up of 20% Tergitol THN-10 (Union Carbide) and 80% water; or 5% concentrated ammonia, 2% detergent, and 93% water. Leave the container open for 24-48 hours. Wash down the spill area with decontamination solution. For major spills call CHEMTREC:

WASTE DISPOSAL HETHOD Decontaminated waste must be disposed of in accordance with Federal, State, and local environmental control regulations. It is your duty to comply with the Clean Air Act, Clean Water Act, and Resources Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Chemical workers goggles or full-face shield. Contact lenses should not be worn in or near work area.

RESPIRATORY PROTECTION: HSHA/NIOSH approved positive-pressure air-supplied respirator with full-face shield. Organic vapor filters are not effective against TDI vapor. The vapor pressure of TDI is such that at normal temperatures, vapor concentration in the air will exceed the TLV of 0.02 ppm.

SKIN PROTECTION: Impervious, chemical resistant (natural rubber) gloves, arm covers, aprons or coveralls, boots and caps.

VENTILATION RECOMMENDED: General mechanical ventilation and local exhaust. to maintain vapor concentration below the TLV.

OTHER PROTECTION: Safety showers and eye wash stations must be easily accessible. Provide a dry nitrogen blanket in bulk storage tanks.

IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE: Store below 100°F, preferably below 90°F, in tightly-closed containers to prevent atmospheric moisture contamination. DO NOT reseal if contamination is suspected. DO NOT store

Wear protective equipment to prevent eye and skin contact. DO NOT breath vapors. Wash hands before eating or smoking.

Since emptied containers retain product residues (vapor or liquid), all hazard precautions given in this HSDS must be observed. For proper container disposal, fill with water and allow to stand unsealed for at least 48 hours then dospose of in accordance with Federal, State and local envir-

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| 4.03 | Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response. |
|-------------|---|
| | Yes 1 |
| | No ② |
| 4.04 | For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing starged discounts. |
| [<u></u>] | manufacturing, storage, disposal and transport activities are determined using the final state of the product. |
| | Physical State |

| | Physical State | | | | | |
|-------------|----------------|--------|--------|------------------|-----|--|
| Activity | Solid | Slurry | Liquid | Liquified Gas | Gas | |
| Manufacture | 1 | 2 | 3 | 4 | 5 | |
| Import | 1 | 2 | 3 | 4 | 5 | |
| Process | 1 | 2 | 3 | 4 | 5 | |
| Store | 1 | 2 | 3 | 4 | 5 | |
| Dispose | (1) | 2 | 3 | 4 | 5 | |
| Transport | | 2 | 3 | 4 | 5 | |

[_] Mark (X) this box if you attach a continuation sheet.

| CBI | | and processing act obstance. Measure t disposal and transp | | | | | | |
|-----|-------------------|--|-------------|--------|---------|-------|---------|-----------|
| | Physical State | | Manufacture | Import | Process | Store | Dispose | Transport |
| | Dust | <1 micron | | | NA NA | | | |
| | | 1 to <5 microns | | | NA | | | |
| | | 5 to <10 microns | | | NA | | | |
| | D1 | | | | | ž. | | - |
| | Powder | <1 micron | | | NA | | | - |
| | | 1 to <5 microns | | • | NA | | | |
| | | 5 to <10 microns | | | NA | | | |
| | Fiber | <1 micron | | | NA | | | |
| | | 1 to <5 microns | | | NA NA | | | - |
| | : | 5 to <10 microns | | | NA | | | - |
| | Aerosol | <1 micron | | | NA | | | |
| | | l to <5 microns | | | NA | | | - |
| | | 5 to <10 microns | | | NA_ | | | |
| | | | | | | | | |
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| SECTION | 5. | ENVIRONMENTAL. | FATE |
|---------|----------|--------------------|------|
| ODOLLUI | . | PRIATIVIMALIAL VI. | PATE |

| 5.01 | | RATE CONSTANTS AND TRANSFORMATION PRODUCTS NA-Mixture | |
|------|----|--|---------|
| | a. | dicate the rate constants for the following transformation processes. Photolysis: | |
| | | | |
| | | Absorption spectrum coefficient (peak) (1/M cm) at Reaction quantum vield. 6 | - nm |
| | | Reaction quantum yield, 6 at at | ממ – |
| | b. | Direct photolysis rate constant, k _p , atl/hrla Oxidation constants at 25°C: | atitude |
| | | | |
| | | For RO (peroxy radical) k | 1/M h |
| | c. | For RO ₂ (peroxy radical), k _{ox} | _ 1/M h |
| | d. | Five-day biochemical oxygen demand, BOD ₅ Biotransformation rate constant: | mg/l |
| | | | |
| | | For bacterial transformation in water, k _b | 1/hr |
| | e. | Specify culture | - |
| | • | Hydrolysis rate constants: | |
| | | For poid process, k _B | 1/M h |
| | | For neutral ne | 1/H h |
| | f. | For neutral process, k _N | 1/hr |
| | | Chemical reduction rate (specify conditions) | - |
| | g. | Other (such as spontaneous degradation) | |
| | | | |
| | | | |
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| | | | |
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| PART | В | PARTITION COEFFICIENTS | · | | | | |
|------|------|---|-------------------------|------------------------------|-----------|------------|--|
| 5.02 | a. | Specify the half-life of the listed substance in the following media. | | | | | |
| | | | | NA-Mixture | | | |
| | | Media | | Half-life (speci | fy units) | | |
| | | Groundwater | | | | | |
| | | Atmosphere | | | | | |
| | | Surface water | | | , | | |
| | | Soil | | | | | |
| | ь. | Identify the listed substance life greater than 24 hours. | e's known tra | ansformation products | that have | e a half- | |
| | | CAS No. | Name | Half-life (specify units) | <u>}</u> | fedia | |
| | | | | | in | | |
| | | | | | in | | |
| | | | | | in | | |
| | | | | - | in | | |
| 5.03 | C | | | NA-Mixture | | | |
| 5.05 | Spe | cify the octanol-water partiti | on coefficie | nt, K _{ow} | | at 25°0 | |
| | ne (| hod of calculation or determin | ation | | | | |
| 5 04 | Spo | oifu the aris | | NA-Mixture | | | |
| 3.0, | ope. | cify the soil-water partition | coefficient, | К _а | | at 25°0 | |
| | 301 | l type | • • • • • • • • • • • • | ••••• | | | |
| 5.05 | Spe | cify the organic carbon-water | | NA-Mixture | | | |
| | coe | fficient, K _{oc} | | | | at 25°0 | |
| 5.06 | Spec | cify the Henry's Law Constant, | | NA-Mixture | | | |
| | , , | one wenty a baw constant, | п | | a | tm-m³/mole | |
| | | | | | | | |
| [_] | Mark | ((X) this box if you attach a | continuation | n sheet. | | | |

| | it was determined, and the ty Bioconcentration Factor | NA-Mixture Species | Test ¹ |
|-------------|---|----------------------------|-------------------|
| | | | |
| | | | |
| | ¹ Use the following codes to de | esignate the type of test. | |
| | F = Flowthrough S = Static : | sales the type of test. | er. |
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| 6.04 <u>CBI</u> | For each market listed below, state the listed substance sold or transferr | ne quantity sold and the | total sales value of eporting year. |
|--------------------|--|---|-------------------------------------|
| (_) | Market Retail sales | Quantity Sold or Transferred (kg/yr) | Total Sales Value (\$/yr) |
| | Distribution Wholesalers | | |
| | Distribution - Retailers Intra-company transfer | | |
| \ | Repackagers Mixture producers | | |
| | Article producers Other chemical manufacturers | | |
| | or processors Exporters | | |
| | Other (specify) | | |
| 6.05 | Substitutes List all known commerci for the listed substance and state the feasible substitute is one which is | ally feasible substitut | es that you know exist |
| <u>CBI</u> | feasible substitute is one which is ec in your current operation, and which r performance in its end uses. | (ADAM) | |
| `' | Substitute | | Cost (\$/kg) |
| | No substitutes currently known | | |
| | | | *** |
| | | | |
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| [-] | Mark (X) this have if | | |
| · | Mark (X) this box if you attach a cont | inuation sheet. | |

SECTION 7 HANUFACTURING AND PROCESSING INFORMATION

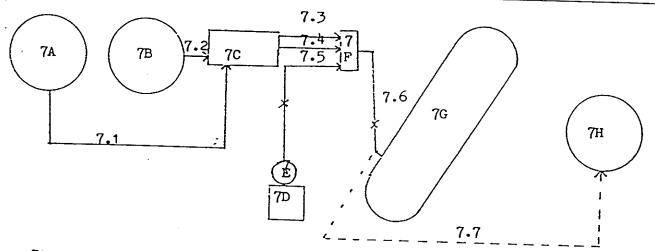
General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the CBI

[__] Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

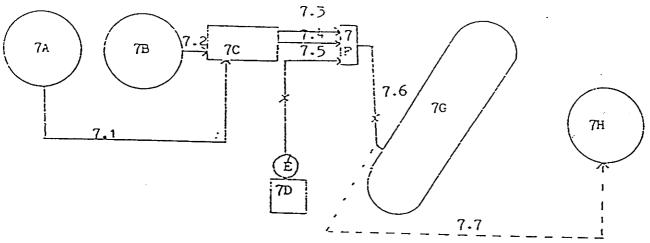
7H = Clean-out Solution Drum

^[] Hark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions type, provide a process block flow diagram from more than one process block.

CBI

| Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Pilled Through Valve Stem

7H = Clean-out Solution Drum

^[] Hark (X) this box if you attach a continuation sheet.

| ſ1 | Process type Batch- Polyurethane Polymerization | | | | | | | |
|----|---|------------------------|--|----------------------------------|-----------------------|--|--|--|
| | Unit Operation ID Number 7A | Typical Equipment Type | Operating Temperature Range (°C) | Operating Pressure Range (mm Hg) | Vessel Composition | | | |
| | | Drum | Ambient | Atmospheric | Steel | | | |
| | 7B | Drum | Ambient | Atmospheric | Steel | | | |
| | 7C | Metering Pump | Ambient | Atmospheric | Stainless | | | |
| | 7D | 5 Gallon Can | Ambient | Atmospheric | Steel | | | |
| | 7E | Pump | Ambient | Atmospheric | Steel | | | |
| | <u>7</u> F | Mixing Head | Ambient | Atmospheric | Stainless | | | |
| | _7G | Tire | Ambient | | | | | |
| | _7H | Drwn | Ambient | Atmospheric Atmospheric | Vul. Rubber | | | |
| | | | | | | | | |
| | | | | | | | | |

[[]__] Mark (X) this box if you attach a continuation sheet.

| 7.05 | | rocess stream identified in your low diagram is provided for more mplete it separately for each pr | | agram(s). If a c, photocopy this | | |
|------|--|--|-------------------------------|------------------------------------|--|--|
| CBI | | | | | | |
| [_] | Process type Batch - Polyurethane Polymerization | | | | | |
| | Process Stream ID Code | Process Stream Description | Physical State ¹ | Stream Flow (kg/yr) | | |
| | 7.1 | TDI Prepolymer | OL | <u>4416</u> <u>4416</u> 8832 | | |
| | 7.3 | TDI Prepolymer | | | | |
| | 7.6 | Polymerizing Polyurethane | OL | | | |
| | | | | 002/ | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | • | · | | | | |
| | GC = Gas (conde GU = Gas (uncon SO = Solid SY = Sludge or AL = Aqueous li OL = Organic li | quid | nd pressure) and pressure) | | | |
| | * | | | | | |
| - | • | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| [_] | Mark (X) this box | x if you attach a continuation : | sheet. | | | |

| [_] | Process typ | oe Batch - P | olyurethane Pol | vmerization | |
|------|------------------------------|-----------------------|--|--------------------------------|-------------------------------------|
| | a. | b. | c. | d. | е. |
| | Process Stream ID Code | Known Compounds | Concen- trations ^{2,3} (% or ppm) | Other Expected Compounds | Estimated Concentrations (% or ppm) |
| | 7.1 | TDI Prepolymer | 40 ± 5.0 (E) (W) | NA | NA |
| | | Petroleum Hydrocarbon | 55 ⁺ 5.0 (E) (W) _ | NA | NA |
| | | Toluene Diisocyanate | 4.0 ⁺ 0.5 (E) (W) | NA | NA |
| | 7.3 | TDI Prepolymer | 40 ± 5.0 (E) (W) | NA | NA |
| | : | Petroleum Hydrocarbon | 55, ± 5.0 | NA | NA NA |
| | | Toluene Diisocyanate | 4.0 ± 0.5 (E) (W) - | NA | NA |
| | 7.6 | Polyurethane | (E) −(₽) | NA | NA NA |
| | | Toluene Diisocyanate | (£) (w) | NA | NA |
| | | Amine | <u> </u> | NA | NA |
| 7.06 | continued b | elov | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| 7.06 | (continued) |
|------|-------------|
|------|-------------|

NA

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

| Additive Package Number | Components of Additive Package | Concentrations(% or ppm) |
|--|-----------------------------------|--------------------------|
| 1 | | |
| | | - |
| 2 | | |
| | | |
| 3 | | |
| | | |
| | | |
| 4 | | - |
| | | , |
| 5 | | |
| | | |
| Jse the following codes to | designate how the concentration | n vas determined: |
| <pre>A = Analytical result E = Engineering judgement/or </pre> | | |
| se the following codes to | designate how the concentratio | n vas measured: |
| V = Volume V = Veight | | |
| | | |
| ck (X) this box if you atta | ch a continuation sheet. | |

| 8.01 In accordance with the instructions, provide a residual treatment block flow d which describes the treatment process used for residuals identified in question CBI | | | | | | | diagram ion 7.01 |
|---|--------------|-----|-----------|--------------|--------------|----|---------------------|
| [_] | Process type | • • | Batch - 1 | Polyurethane | Polymerizati | on | |
| | | NA | | | | | |
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| 8.05 <u>CBI</u> | process | (s). II a r type, photo | esidual trea copy this du | tment block f. estion and cor | in your residu low diagram is plete it sepa c explanation : | provided for | more than one | | |
|--------------------|--|-------------------------------|--|----------------------------------|--|--------------------------------|---------------------------------------|--|--|
| [_] | Process type Batch - Polyurethane Polymerization | | | | | | | | |
| | a. | b. | C. | d. | e. | f. | g. | | |
| | Stream ID Code | Type of Hazardous Vaste | Physical State of Residual ² | Known Compounds ³ | Concentra- tions (% or ppm) ^{4,5,6} | Other Expected Compounds | Estimated Concen- trations (% or ppm) | | |
| | | | | | | | - | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| 8.05 | continu | ed below | | | | · | | | |

8.05 (continued)

NA

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[_] Mark (X) this box if you attach a continuation sheet.

| 8.05 | (continued) |
|------|-------------|
|------|-------------|

NA

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

| | Additive Package Number | | Components of Additive Package | _ | Concentrations (% or ppm) |
|------|--|---|-----------------------------------|----------------|---------------------------|
| | 1 | | | - . | |
| | | | | - . | |
| | | | | <u>-</u> . | |
| | 2 | | | | |
| | | , | | | |
| | 3 | | | - | |
| | | | | - | |
| | | | | - | |
| | 4 | | | _ | |
| | • | | | _ | |
| | | | | - | |
| | 5 | | | - | |
| | | | | _ | |
| | | | | _ | |
| | ⁴ Use the following | codes to d | esignate how the conc | entration wa | s determined: |
| | A = Analytical re E = Engineering j | sult udgement/ca | lculation | , | |
| 3.05 | continued below | | | | |
| [_] | Mark (X) this box | if you atta | ch a continuation she | et. | |
| | | *************************************** | 56 | | |

| 8.05 | (continued) |
|------|-------------|
| 0.05 | (continued) |

NA

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

| Code | Method | Detection Limit(<u>+</u> ug/l) |
|------|--------|---------------------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| | | |

 $[\]$ Mark (X) this box if you attach a continuation sheet.

| 8.06 | process | ii(s). II a S type, pho | residual trea tocopy this di | atment block sestion and | ed in your residua c flow diagram is complete it separ ther explanation a | provided for mo | re than one |
|------------|----------------------|----------------------------|--|-----------------------------------|--|--------------------------------------|-------------------------------------|
| <u>CBI</u> | | | | | | | |
| [_] | Process | s type | Ba | tch - Polyu | rethane Polymeriz | ation | |
| | a | b. | c. NA | d. | е. | f. | g. |
| | Stream ID Code | Vaste Descripti Code | Management on Method Code ² | Residual Quantities (kg/yr) | Management s of Residual (% On-Site Off-Si | | Changes in Management Methods |
| | | | | | | | |
| | · | | | | | , | |
| | | | | | | | |
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| | | | | | | | |
| | 1,, | · | | | | | |
| | Use th | ne codes pr | ovided in Exhi | bit 8-1 to bit 8-2 to | designate the was | ste descriptions nagement methods | |
| [_] | Mark () | () this box | if you attach | n a continua | ation sheet. | | |
| | | | | | | | |

| 8.22 | Describe the c (by capacity) | oubustion chamber in cinerators that | design para | meters for | ach of the | three la | gest |
|---------------------------|------------------------------|---|---|---|----------------------------------|---|----------------------------------|
| CBI / | your process b | lock or residual t | reatment bl | ock flow dia | gram(s). | duais ider | Nified in |
| [_] | | Combustion Chamber Temperature (° | <u>c)</u> | Location o Temperatur Monitor | ` | Resider In Comb Chamber (| nce Time oustion (seconds) |
| | Incinerator 1 | Primary Second | dary Pri | Mary Seco | ndary P | rimary | Secondary |
| | $\frac{2}{3}$ | | | __ | | | |
| | Indicate by circl Yes | if Office of Solid | d Waste surve e response. | vey has been | submitted | in lied o | of response |
| | | | / | • | · . / · · · · · · · · | • | 1 |
| | No | ····/··· | ••••••••••••••••••••••••••••••••••••••• | • | ····\ \ ····· | • • • • • • • • • • | 2 |
| 8.23 <u>CBI</u> [_] | | ollowing table for te to burn the resi c flow diagram(s). NA | iduais iden | illed in you | capacity) ur process | incinerato block or Types | residual |
| | Incinerator | | Air Pollution Ontrol Device | | | Emissions Availa | Data |
| | 1 | | | | | NATIA | .bre |
| | 2 | | | | | | |
| | 3 | | *** <u> </u> | | - | | |
| | Indicate by circl | if Office of Soliding the appropriate | e response. | | | | |
| | No | | | | | • | 2 |
| | ¹ Use the follow | ving codes to desig | gnate the ai | r pollution | | | |
| | v = vrectrosts | include type of so atic precipitator ecify) | | | | | |
| [_] | Mark (X) this t | oox if you attach a | continuati | on sheet. | | | |

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

| 1 |)ata are Ma | intained for | : Year in Which | Number of |
|---|---|--------------|-----------------|----------------|
| Data Element | Hourly | Salaried | Data Collection | Years Record |
| | Workers | Workers | Began | Are Maintair |
| Date of hire | X | <u>X</u> | 1978 | PERMANE |
| Age at hire | X | X | 1978 | FRMANET |
| Work history of individual before employment at your facility | + | X | 197\$ | PERMANE |
| Sex | X | + | 1972 | PERMANES |
| Race | +- | 4 | 1972 | PERMANE |
| Job titles | | + | 1928 | PERMANG |
| Start date for each job title | + | | 1978 | PERMANE |
| End date for each job title | _+_ | | 1978 | PERMANET |
| Work area industrial hygiene monitoring data | | | | |
| Personal employee monitoring data | | | | |
| Employee medical history | | | | |
| Employee smoking history | | | | - |
| Accident history | | | | |
| Retirement date | X | X | 1928 | Pometa = |
| Termination date | V | | 1908 | a man |
| Vital status of retirees | | | | 1 DI-11/1/1/ E |
| Cause of death data | *************************************** | | | |
| | | | | |

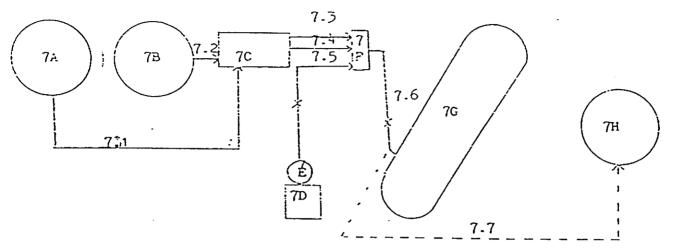
| 0.02 CBI | In accordance with the in which you engage. | instructions, complete | the following ta | ble for e | ach activity |
|-------------|---|------------------------|------------------|----------------|--------------|
| | | | | | |
| 1 | a. | b. | c. | d. | e. |
| | Activity | Process Category | Yearly | Total | Total |
| | Manufacture of the | Enclosed | Quantity (kg) | <u>Vorkers</u> | Worker-Hou |
| | listed substance | Controlled Release | | | |
| | | Open | | - | - |
| | On-site use as | Enclosed | 176.64 | | 107 |
| | reactant | Controlled Release | 1 10.69 | | 132 |
| | | Open | | | |
| | On-site use as | Enclosed | | - | |
| | nonreactant | Controlled Release | | | |
| | | Open | | | |
| | On-site preparation | Enclosed | | | |
| | of products | Controlled Release | | , | |
| | • | | | | *** |
| | | 0pen | - | *** | |
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| encompasses workers wh listed substance. I | job title for each labor category at your facility that no may potentially come in contact with or be exposed to the |
|--|--|
| _] | |
| Labor Category | Descriptive Job Title |
| А | SERVICEMAN |
| В | |
| С | |
| D | |
| E | |
| F | |
| G · | |
| Н | |
| I | |
| J | |
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9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Sten

7H = Clean-out Solution Drum

Note: All above is considered one work area

[] Mark (X) this box if you attach a continuation sheet.

| 9.05 CBI | additional areas not | work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type. |
|-------------|----------------------|--|
| [_] | Process type | Batch - Polyurethane Polymerization |
| | Work Area ID . | Description of Work Areas and Worker Activities |
| | 1 | Pumping TDI/Amine solutions to mixer, filling tires through valve stem with polyurethane, and cleaning hosing with alcohol |
| | 2 | |
| | 3 | |
| | 4 | |
| | 5 | |
| | 6 | |
| | 7 | |
| | 8 | |
| | 9 | |
| | 10 | |
| | | |
| | | |
| | | |

| Process type | | Batch - Pol | yurethan | e Polymeriza | tion | | |
|---|--|---|----------------|--|--|-------------------------------------|--|
| Work area | | | | | | | |
| Labor Category | Number of Workers Exposed | Mode of Exposu (e.g., din skin conta | cect | Physical State of Listed Substance | Average Length of Exposure Per Day ² | Number Days pe Year Expose | |
| SERVICE | | DIRECTSKI | N CANTACT | - OL | \mathcal{D} | 33 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | - | |
| | | | | | | | |
| | | | | | | - | |
| | | | | | | | |
| GC = Gas (contemper | oving codes exposure: condensible a ture and prescondensible | essure) | SY = AL = | Sludge or sl Aqueous liqu | urry | abstance a | |
| temper | ature and pr les fumes, va | essure; | | Organic liqu Immiscible 1 (specify pha 90% vater, 1 | iquid ses, e.g., | | |
| ² Use the following codes to designate average length of exposure per day: | | | | | | | |
| A = 15 minut B = Greater exceedin C = Greater | | tes, but not | D = (E = (| Greater than exceeding 4 h | 2 hours, but lours 4 hours, but lours | not | |

| 9.07 | weighted Average (TWA | ry represented in question 9.06) exposure levels and the 15-mi on and complete it separately f | nute neak evancura lovala |
|---------|------------------------|---|---|
| CBI | | | |
| [_] | Process type | Batch - Polyurethane Polymer | rization |
| | Work area | ••••• | 1 |
| | Labor Category | 8-hour TWA Exposure Level (ppm, mg/m³, other-specify) | 15-Hinute Peak Exposure Leve (ppm, mg/m³, other-specify) |
| | * | * | * |
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| * No | tests have been conduc | eted | |
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| | | | |

| 8 | If you monitor worke | r exposur | e to the li | sted substar | rce, compl | ete the fo | llowing table |
|---|---|-------------------|------------------------------------|------------------------------------|-----------------------------|-------------------------------|---|
|] | No mor | itor wo rk | ter exposure | available | | | |
| 1 | Sample/Test | Work Area ID | Testing Frequency (per year) | Number of Samples (per test) | Who Samples ¹ | Analyzed In-House (Y/N) | Number of Years Record Maintained |
| | Personal breathing zone | · | | | | | |
| | General work area (air) | | | | | | |
| | Vipe samples | | | | | | |
| | Adhesive patches | | | | | | |
| | Blood samples | | | | | | |
| | Urine samples | | | | | | |
| | Respiratory samples | | | | | | |
| | Allergy tests | | | | | | |
| | Other (specify) | | | | | | |
| | Other (specify) | | | | | | |
| | Other (specify) | 4 | 4986 | | | | |
| | | | | | | | - |
| | ¹ Use the following c A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify) | l hygieni er | | takes the | monitorin | g samples: | |

| | Sample Type | NA | Sampling and Analyt | | ду | | | |
|--------------|---|---|-----------------------------|-----------------------|-------------|--|--|--|
| | | | | | | | | |
| | | | | | | | | |
| 9.10 CBI | If you conduct perso specify the following | nal and/or ambieg information for not conduction | r each equipment typ | r the listed se used. | ubstance, | | | |
| [_] | Equipment Type ¹ | Detection Limi | t ² Manufacturer | Averaging Time (hr) | Model Numbe | | | |
| | · | | | | | | | |
| | | | | | | | | |
| - | | | | | | | | |
| | ¹ Use the following contains A = Passive dosimeter B = Detector tube C = Charcoal filtra D = Other (specify) | odes to designate er tion tube with po | e personal air monit | oring equipmen | t types: | | | |
| | Use the following codes to designate ambient air monitoring equipment types: | | | | | | | |
| | <pre>E = Stationary moni F = Stationary moni G = Stationary moni H = Mobile monitoring I = Other (specify)</pre> | tors located with tors located at p ng equipment (spe | nin facility | | | | | |
| | ² Use the following contains A = ppm B = Fibers/cubic centains C = Micrograms/cubic | odes to designate | e detection limit un | its: | | | | |

| <u>I</u> | No tests condu | Frequency | | | |
|----------|------------------|-----------|------------|-----------------|-------|
| _] | Test Description | | (weekly, m | onthly, yearly, | etc.) |
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| 9.12 | .2 Describe the engineering controls that you use to reduce or eliminate worker expos to the listed substance. Photocopy this question and complete it separately for express type and work area. | | | | | | |
|------|--|---------------------------|-------------------|-------------------|------------------|--|--|
| CBI | The state of the s | N | one ** | | | | |
| [_] | Process type | Batch - | Polyurethane Poly | merization | | | |
| | Work area | • • • • • • • • • • • • • | | 1 | | | |
| | Engineering Controls | Used (Y/N) | Year Installed | Upgraded (Y/N) | Year Upgraded | | |
| | Ventilation: | | | | | | |
| | Local exhaust | | | | | | |
| | General dilution | | | | | | |
| | Other (specify) | • | | | | | |
| | Vessel emission controls | | | | | | |
| | Mechanical loading or packaging equipment | | | | | | |
| | Other (specify) | | | | | | |
| | | | | | | | |
| * | Not aware that any engineering | controls are | needed | | | | |

[] Mark (X) this box if you attach a continuation sheet.

| complete i | substance. For each tage reduction in exp t separately for each | osure that resulted. | Photocopy th | is question and |
|------------|---|----------------------|--------------|--------------------------------------|
| Process ty | pe Batch | - Polyurethane Poly | merization | |
| Work area | | ••••• | 1 | |
| | Equipment or Process | Modification | | duction in Worke Osure Per Year (|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | No Modificati | ione | | |
| | | | | |
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[] Mark (X) this box if you attach a continuation sheet.

| 9.14 Describe the personal protective and safety equipment that your workers wear or in each work area in order to reduce or eliminate their exposure to the listed substance. Photocopy this question and complete it separately for each process and work area. CBI Process type | | | VE AND SAFETY EQUIPMENT | |
|--|------|--------------------|---------------------------------|--------------------------------|
| Batch - Polyurethane Polymerization | 9.14 | substance. Photoco | IL DIUGE TO REQUEE OF eliminati | e their evancura to the lieted |
| Wear or Use (Y/N) Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify) | CBI | and work area. | | |
| Equipment Types Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify) | [_] | Process type | Batch - Polyurethane | Polymerization |
| Equipment Types Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify) | | Work area | | 1 |
| Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify) | | | | |
| Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify) | | | | |
| Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify) | | | Equipment Types | |
| Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify) | | | Respirators | * |
| Coveralls Bib aprons Chemical-resistant gloves Other (specify) | | | Safety goggles/glasses | X |
| Chemical-resistant gloves Other (specify) | | | Face shields | |
| Other (specify) | | | Coveralls | |
| Other (specify) | | | Bib aprons | |
| | | | Chemical-resistant gloves | <u> </u> |
| | | · | Other (specify) | |
| | | | | |
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[_] Mark (X) this box if you attach a continuation sheet.

| 9.15 | If workers use respirat process type, the work respirators used, the a tested, and the type an complete it separately | verage usage, d frequency o | ne respirat whether or f the fit t | ors are us | ed, the type | of | | |
|------|---|--------------------------------|------------------------------------|------------------------|---|---|--|--|
| CBI | | | | | | | | |
| [_] | Process type Batch - Polyurethane Polymerization | | | | | | | |
| | Work Respir Area Typ | | Average Usage | Fit Tested (Y/N) | Type of Fit Test ² | Frequency of Fit Tests (per year) | | |
| | N/P | | | | *************************************** | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | A = Daily B = Weekly C = Monthly D = Once a year E = Other (specify) Use the following code QL = Qualitative QT = Quantitative | | | | t: | | | |
| | | | | | • | | | |
| [_] | Mark (X) this box if yo | u attach a co | ntinuation | sheet | | | | |

| PART | E WORK PRACTICES | · | | | | | | |
|--|---|-----------------------------------|---|----------------------|------------------------------|--|--|--|
| 9.19 <u>CBI</u> | Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area. | | | | | | | |
| Process type Batch - Polyurethane Polymerization | | | | | | | | |
| | Work area | •••••• | • | 1 | | | | |
| | Area is not restri | lcted | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| | | | | | | | | |
| | leaks or spills of the lis separately for each proces Process type | s type and work Batch - Polyuret | area. hane Polymeri | | d complete it | | | |
| | Housekeeping Tasks | Less Than Once Per Day | 1-2 Times Per Day | 3-4 Times Per Day | More Than 4 Times Per Day | | | |
| | Sweeping | X | | | | | | |
| | Vacuuming | | | | | | | |
| | Water flushing of floors | | | | | | | |
| | Other (specify) | | | | | | | |
| | | | | | *** | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| [] | Mark (X) this box if you a | ttach a continu | •: | | | | | |
| | t , this son it you a | Eurinius continus | cron sneet. | | | | | |

| 9/21 | Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance: |
|------|--|
| | Routine exposure |
| , | \frac{\frac}\fint}{\frac}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\f |
| | Nb |
| | Emergency exposure |
| | Yes \ |
| | No |
| | If yes, where are copies of the plan maintained? |
| \ | Routine exposure: |
| | Emergency exposure: |
| | |
| 9.22 | Do you have a written leak and spill cleanup plan that addresses the listed |
| | substance: Circle the appropriate response. |
| | Yes |
| | No 2 |
| | If yes, where are copies of the plan maintained? OFFICE, BY FILL AREA |
| | Has this plan been coordinated with state or local government response organizations? Circle the appropriate response. |
| | Yes 1 |
| | No |
| *** | |
| 9.23 | Who is responsible for monitoring worker safety at your facility? Circle the appropriate response. |
| | Plant safety specialist |
| | Insurance carrier |
| | OSHA consultant |
| | Other (spedify) 4 |
| | |
| [_] | Mark (X) this box if you attach a continuation sheet. |

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

| PART A | GENERAL INFORMATION |
|--------------|---|
| 10.01 CBI | Where is your facility located? Circle all appropriate responses. |
| [_] | Industrial area |
| | Residential area 3 |
| | Agricultural area |
| | Adjacent to a park or a recreational area 6 |
| | Within 1 mile of a navigable waterway |
| | Within 1 mile of a non-navigable waterway 9 |
| [_]) | Other (specify) |

| 10.02 | Specify the exact location of is located) in terms of latit (UTM) coordinates. | your facility (from ce ude and longitude or Ur | entral point wher diversal Transver | e process unit se Hercader |
|--------------|--|---|---|---|
| | Latitude | •••••••••• | 44 . 2 | 3 47 |
| | Longitude | •••••••••• | | 4.58 |
| | UTM coordinates | Zone, Nort | hing, E | asting |
| 10.03 | If you monitor meteorological the following information. | conditions in the vici | nity of your fac | ility, provide |
| | Average annual precipitation | | | inches (ve |
| | Predominant wind direction | • | | inches/ye |
| | | | | |
| | | | | \ |
| 10.کنر | Indicate the depth to groundy | ater below your falls. | | |
| 10.04 | Indicate the depth to groundy | • | у. | |
| 10.05 | Depth to groundwater For each on-site activity lies | tod indicate an arrange | | meters asses of the |
| | For each on-site activity listing listed substance to the environment, N, and NA.) | ted, indicate (Y/N/NA) onment. (Refer to the | all routine releadinstructions for | ases of the a definition |
| 10.05 CBI | For each on-site activity listing listed substance to the environment of the substance of the substance of the environment of the substance of the environment of the substance of the environment | ted, indicate (Y/N/NA) onment. (Refer to the En | all routine relea | ases of the a definition |
| 10.05 CBI | For each on-site activity listing listed substance to the environment of the environment of the substance of the environment of | ted, indicate (Y/N/NA) onment. (Refer to the | all routine releadinstructions for | ases of the a definition |
| 10.05 CBI | For each on-site activity list listed substance to the environment of | ted, indicate (Y/N/NA) onment. (Refer to the En | all routine releadinstructions for vironmental Relead | ases of the a definition |
| 10.05 CBI | For each on-site activity list listed substance to the environment of | ted, indicate (Y/N/NA) onment. (Refer to the En Air NA | all routine releatinstructions for vironmental Releater | ases of the a definition date ase Land NA |
| 10.05 CBI | For each on-site activity list listed substance to the environmy, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used | ted, indicate (Y/N/NA) onment. (Refer to the En Air NA NA | all routine releatinstructions for vironmental Releating NA | ases of the a definition ase Land NA NA |
| 10.05 CBI | For each on-site activity list listed substance to the environcy, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage | ted, indicate (Y/N/NA) onment. (Refer to the En Air NA NA N | all routine releatinstructions for vironmental Releations NA NA NA | ases of the a definition ase Land NA NA |
| 10.05 CBI | For each on-site activity list listed substance to the environmy, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used | ted, indicate (Y/N/NA) onment. (Refer to the Air NA NA NA NA NA | all routine releatinstructions for vironmental Releater NA NA NA NA NA NA NA | ases of the a definition of the a definition of the ase Land NA NA NA NA NA |

| 10.06 | Provide the following information for the listed of precision for each item. (Refer to the instruan example.) | substance and spections for furth | ecify the level er explanation and |
|-------|---|-----------------------------------|---------------------------------------|
| CBI | | | |
| [_] | | | |
| | Quantity discharged to the air | NA | kg/yr ± % |
| | Quantity discharged in wastewaters | NA | kg/yr <u>+</u> % |
| | Quantity managed as other waste in on-site treatment, storage, or disposal units | NA | kg/yr <u>+</u> 2 |
| | Quantity managed as other waste in off-site treatment, storage, or disposal units | NA | kg/yr <u>+</u> 2 |
| | | | |

[__] Mark (X) this box if you attach a continuation sheet.

| 10.08 CBI | Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type. | | | | | | | |
|--------------|---|--|--------------------|--|--|--|--|--|
| [_] | Process type Batch - Polyurethane Polymerization | | | | | | | |
| | Stream ID Code | NA - Essential a closed system Control Technology | Percent Efficiency | | | | | |
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| [_] | Marile (V) | ou attach a continuation sheet. | | | | | | |

| 10.09 <u>CBI</u> | residual treatment l | |
|------------------|----------------------|--------------------------------------|
| | Process type | Batch - Polyurethane Polymerization |
| | Point SourceID Code | Description of Emission Point Source |
| | | NA . |
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| | Point Source ID Code | Stack Height(m) | Stack Inner Diameter (at outlet) (m) | NA Exhaust Temperature (°C) | Emission Exit Velocity _(m/sec) | Building Height(m) ¹ | Building Width(m) ² | V. |
|------------|-------------------------------|--------------------|--|--------------------------------------|---------------------------------|------------------------------------|-----------------------------------|----|
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| - <u>-</u> | ¹ Height o | f attached | or adjacent | building | | | | |
| | | | or adjacent | | | | | |
| | | | | ignate vent | type: | | | |
| | H = Hori V = Vert | zontal | | | | | | |
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| 10.12 <u>CBI</u> | distribution for each rothe Source | in particulate form, indicate the particle size ID Code identified in question 10.09. te it separately for each emission point source. | | | | | |
|---------------------|------------------------------------|--|--|--|--|--|--|
| [_] | NA Point source ID code | | | | | | |
| | Size Range (microns) | Mass Fraction (% ± % precision) | | | | | |
| | < 1 | | | | | | |
| | ≥ 1 to < 10 | | | | | | |
| | ≥ 10 to < 30 | | | | | | |
| | ≥ 30 to < 50 | | | | | | |
| | ≥ 50 to < 100 | | | | | | |
| | ≥ 100 to < 500 | | | | | | |
| | ≥ 500 | | | | | | |
| | | Total = 100% | | | | | |
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| 10.13 | Equipment Leaks Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated exposed to the listed substance. Photocopy this question and complete it separately for each process type. | | | | | | |
|------------|--|-----------------|-----------|-----------------------|------------|-----------|---------------------|
| <u>CBI</u> | for each process type. | tance. Photo | copy thi | s questio | n and com | plete it | separately |
| [_] | Process type Ba | tch - Polyure | thane Po | lvmerizat: | ion | | |
| | Percentage of time per yea type | r that the la | | | | to this p | rocess |
| | | Number | of Compos | nents in d Substan | Service h | v Voight | Porcer |
| | Equipment Type Pump seals ¹ | Less than 5% | 5-10% | | 26-75% | | Greater than 99% |
| | Packed Mechanical Double mechanical ² | | | | | | |
| | Compressor seals ¹ | /_ | | | | | |
| | Flanges Valves Gas ³ | | | | | | |
| | Liquid | | | | | | |
| | Pressure relief devices ⁴ (Gas or vapor only) | | | | | | |
| | Sample connections Gas | | | | | | |
| | Liquid | | | | | | |
| | Open-ended lines ⁵ (e.g., purge, vent) | | | | | | ***** |
| | Gas | | | | | | |
| | Liquid | | | | | | |
| | ¹ List the number of pump ar compressors | d compressor | seals, r | ather tha | in the num | ber of pu | umps or |
| 10.13 | continued on next page | | | | | | |

| 10.13 | (continued) | | | | | | | |
|--------------|---|---|---|--|--|--|--|--|
| | ² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively | | | | | | | |
| | ³ Conditions existing in the valve during normal operation | | | | | | | |
| | 4Report all pressure relie control devices | | | equipped with | | | | |
| | ⁵ Lines closed during norma operations | al operation that wou | ald be used during | maintenance | | | | |
| 10.14 CBI | Pressure Relief Devices wi pressure relief devices id devices in service are con enter "None" under column | strolled. If a proce | | | | | | |
| [_] | a. NA | b. | c. | ı | | | | |
| | Number of Pressure Relief Devices | Percent Chemical in Vessel | Control Device | d. Estimated Control Efficiency ² | | | | |
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| | Refer to the table in ques heading entitled "Number o Substance" (e.g., <5%, 5-1) | 0%, 11-25%, etc.) | ice by weight Pero | ent of Listed | | | | |
| | ² The EPA assigns a control with rupture discs under neefficiency of 98 percent feconditions | efficiency of 100 pe ormal operating cond or emissions routed | rcent for equipmer itions. The EPA a to a flare under r | nt leaks controlled ussigns a control normal operating | | | | |
| [_] | Mark (X) this box if you at | tach a continuation : | sheet. | | | | | |

| 10.15 | Equipment Leak Detection If a formal leak detection and repair program is in place, complete the following table regarding those leak detection and repair procedures. Photocopy this question and complete it separately for each process type. | | | | | | | |
|-------|--|--|---|------------|---|---|--|--|
| CBI | | | | | | | | |
| [_] | Process type | • | • | Batch - Po | olyurethane | Polymerizatio | | |
| - | Equipment Type | Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source | Detection Device | | Repairs Initiated (days after detection) | Repairs Completed (days after initiated) | | |
| | Pump seals | .) | | | | | | |
| | Packed | NR | | | | | | |
| | Mechanical | | | | | | | |
| | Double mechanical | | | | | | | |
| | Compressor seals | | | | | | | |
| | Flanges | | | | | | | |
| | Valves | | | | | | | |
| | Gas | | | | | | | |
| | Liquid | | | | | | | |
| | Pressure relief devices (gas or vapor only) | | | | | | | |
| | Sample connections | | | | | | | |
| | Gas | | | | | | | |
| | Liquid | | | | | | | |
| | Open-ended lines | | | | | | | |
| | Gas | | | | | | | |
| | Liquid | | | | | | | |
| | ¹ Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify) | unic vapor analyzer | | | | | | |
| | | | | | | | | |
| [_] | Mark (X) this box if y | ou attach a contin | uation shee | et. | | | | |

| . — | NA. | | | | | | | |
|---|--------------|--|--|--|--|--|--|--|
|] Mark (X) this box if you attach a continuation sheet. | 10.16 CBI | Raw Material, Intermediate and Product Storage Emissions Complete the following table by providing the information on each liquid raw material, intermediate, and product storage vessel containing the listed substance as identified in your process block or residual treatment block flow diagram(s). | | | | | | |
| | | Operat- Vessel Vessel Vessel ing Floating Composition Throughput Filling Filling Inner Vessel Vessel Design Vent Control Basis sel Roof of Stored (liters Rate Duration Diameter Height Volume Emission Flow Diameter Efficiency for e Seals Materials per year) (gpm) (min) (m) (m) (l) Controls Rate (cm) (%) Estimate | | | | | | |
| | | | | | | | | |
| | | the following codes to designate vessel type: Fixed roof Contact internal floating roof F = Noncontact internal floating roof External floating roof F = Pressure vessel (indicate pressure rating) Horizontal Underground White item following codes to designate floating roof seals: White following codes to designate floating roo | | | | | | |
| | | Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Sas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency: C = Calculations S = Sampling | | | | | | |

PART E NON-ROUTINE RELEASES

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

| Release | Date Time Started (am/pm) NowE | Date Stopped | Time (am/pm) |
|----------|---------------------------------|-----------------|-----------------|
| 2 | | | |
| <u>3</u> | | | |
| 5 | | | |
| 6 | | | |

10.24 Specify the weather conditions at the time of each release.

| | \ | | | | |
|----------|------------|-------------------|--------------|------------------|--------------------|
| Rele | Wind Speed | Wind Direction | Humidity (%) | Temperature (°C) | Precipitation(Y/N) |
| <u>i</u> | | - \ | | | \ |
| 3 | | | \ | | |
| | | | | | |
| 6 | | | | | |
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 $[\ \]$ Mark (X) this box if you attach a continuation sheet.



